

Amendments to the Specification

- 1) Please insert the following paragraph beginning at page 1, line 3, following the title:

This application claims the benefit of priority under 35 U.S.C. § 119 (a) and (b) 1 to **Italian Application No. MI2003A002367, filed December 3, 2003**, the entire contents of which are incorporated herein by reference.

- 2) Please insert the following subtitles:

At page 1, lines 4 and 5, following the above inserted claim to priority:

Background of the Invention**1. Field of the Invention**

At page 1, line 11, prior to the paragraph that begins "As is widely known ...":

2. Related Art

At page 2, line 11, prior to the paragraph that begins "If the characteristics of the liquid to be cooled ...":

Objects of the Invention

At page 2, line 26, prior to the line that begins "Figure 1 is a schematic view ...":

Brief Description of the Drawings

At page 3, line 4, prior to the paragraph that begins "With reference to the said figures ...":

Description of Preferred Embodiments

- 3) Please add the following paragraph to page 2, line 26, immediately following the above inserted subtitle "Brief Description of the Drawings":

For a further understanding of the nature and objects for the present invention, reference should be made to the following detailed description, taken in conjunction with the accompanying drawings, in which like elements are given the same or analogous reference numbers and wherein:

- 4) Please add the following paragraph to page 10, line 20, immediately following the sentence ending "... expel all the cooled liquid contained in the cooler." :

Conduit names are provided to assist in cross-reference to the Figures:

- Conduit 3 is the Subject Fluid Conduit.
- Conduit 6 is the Cooling Fluid Conduit.
- Conduit 9 is the Vapor Conduit.
- Conduit 14 is the Cooled Subject Fluid Discharge Conduit,
- Conduit 18 is the Cooling Gas Discharge Conduit.
- Conduit 20 is the Auxiliary gas Conduit.
- Conduits 22, 26 are the Recycle Conduits.
- Conduit 24 is the Feed Conduit.

- 5) Please add the following paragraph to page 10, line 20, immediately following the above inserted cross-reference list:

It will be understood that many additional changes in the details, materials, steps and arrangement of parts, which have been herein described in order to explain the nature of the invention, may be made by those skilled in the art within the principle and scope of the invention as expressed in the appended claims. Thus, the present invention is not intended to be limited to the specific embodiments in the examples given above.

- 6) Please replace the paragraph on page 2, line 11, with the following rewritten paragraph:

If the characteristics of the liquid to be cooled are such as to enable it, any contained solid parts may undergo damage within this conduit because of their high velocity[.], a non-limiting example being damage to the grapes in the case of pressed grape pulp.

- 7) Please replace the paragraph on page 4, line 3, with the following rewritten paragraph:

Gas or vapour is fed in the ~~aforedescribed~~ aforedescribed manner to prevent the injector 7 filling with cooling liquid along the portion 7c when liquefied gas feed via the injector is not required, with the risk that on again connecting the injector 7 associated with the line 6, contact takes place between the liquefied gas and the liquid to be cooled, with possible freezing of this latter because of the low temperature attained, and consequent obstruction of the injector 7, so preventing its correct operation.

- 8) Please replace the paragraph on page 6, line 25, with the following rewritten paragraph:

The said control unit (not shown) receives the values of the measured parameters such as temperatures from the indicator 13, the level from the indicator 12, and the pressure from the indicator 11, and processes the determined values in accordance with known algorithms with which the system is provided. The result of processing the said algorithms is the definition of the state (such as valve [;]positions, i.e. open/closed/partially open, etc.) of the said components during operation, this state being achieved by the system with the aid of known controlled electropneumatic components connected to the movable parts of the plant (for example valves).

- 9) Please replace the abstract on page 15, line 5, with the following rewritten paragraph:

A method and apparatus for cooling a fluid in the liquid state, possibly also containing solid elements, ~~comprises~~ comprising feeding said fluid into a containing member for said fluid and also feeding into said member a cooling fluid in the liquid state, such as a liquefied gas; said fluids are brought into direct contact within said containing member so that by absorbing heat, the cooling fluid passes into the gaseous state and cools the fluid to be cooled, these fluids then being extracted directly from said member by separate conduits.